MUD Update

Eliot Lear (amongst others)

Reminder

- Manufacturer Usage Descriptions provide an indication of manufacturer intent to local deployments
- Initial work provides configuration recommendations to configure access on network elements
- Components
  - A URL
  - A means to communicate it to the network
  - A YANG-based JSON file
  - The MUD Controller that converts abstract policy to specific configuration
  - The Manufacturer File server

Recently…

- draft-ietf-opsawg-mud-13 has completed both WGLC and IETF last call
- A few changes coming out of these last calls
  - Improved privacy considerations
  - Improved terminology consistency
  - A few editorial issues
  - Clarity on use of HTTPS processing
  - MASA server pulled out of core document and moved to an extension
- Open source coming out and more being worked on

Open Issues

- Change systemInfo back to UTF8
  - Considered a security issue
  - Probably OK for V1
- Add a new leaf node to directly reference signature
  - Not by filename implication
  - Means that signature must always travel with the file or is hardcoded before signing
- Version # in the URL
  - Mark Nottingham wants this out
  - Put version in both HTTP header (when HTTP is used)
  - Also put it in the model
  - Doing this brings it in line with other web services
  - Doing this hardcodes this major MUD version to JSON (probably forever)
- Normative dependency on draft-ietf-netmod-acl-model
  - That document is undergoing revision
  - If this doesn't resolve shortly we should do something here. We can't wait forever.

Looking forward

- Probably a new draft in response to previous slide to resolve comments
- Extensions
  - MASA server from BRSKI
  - Some want means to find semantic definitions
  - Pointers to other Thing descriptions (various databases)